

PODRABINIK G. M.

USSR / Human and Animal Physiology. Blood.

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41199.

Author : Podrabinik, G. M.

Inst : NOT GIVEN.

Title : Bio-chemical Changes in the Blood of Frequent Donors. Communication. I. Investigations of Albumin and γ -Globulin in the Blood Serum of Donors.

Orig Pub: Byul. eksperim. biol. i meditsiny, 1956, 41, No 2, 45-47.

Abstract: Examination of 1,770 blood samples, from 997 donors, showed that in 93.6% of cases the concentration of total blood serum protein remained normal (6.5% and higher). The value of γ -Globulin was determined in 1,175 specimens by the salting-out method of Wolfson. The relative content of γ -globulins varied from 13-18% in the majority of the cases (1,057). -- Z. A. Chaplygina.

Card 1/1

RODOV, G.M.; PODRABINNIK, I.M.

Selecting crank presses. Avt.i trakt.prom. no.7:32-34 J1 '57.
(MIRA 10:11)

(Power presses)

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
<i>CA</i> Electrochemical investigation of solutions of aluminum chloride and potassium chloride in nitrobenzene. V. A. Pashkov and I. M. Fedoryan. <i>J. Gen. Chem.</i> (U. S. S. R.) 3, 199-6 (1968). — A study was made of the elec. cond. of AlCl_3 soln. of AlCl_3 in concn. of 0.00-20.4%, and of AlCl_3-KCl soln. in mol. ratios of AlCl_3:$\text{C}_6\text{H}_5\text{NO}_2$ = 0.10, 0.14, 0.26 and 0.35; and KCl:AlCl_3 = from 0.030 to 0.700, at 10°. In AlCl_3 soln. ep. cond. increases with concn. and reaches a max. of 146.1×10^{-6} reciprocal ohm at 10% AlCl_3, after which it decreases. The ep. cond. of AlCl_3-KCl is greater than for AlCl_3 alone and increases with concn. of KCl. The mol. cond. of AlCl_3 increases with concn. and reaches the limit 4.5. In the electrolysis of AlCl_3-KCl, K exps. at the Cu cathode at 5 v. S. L. Madorsky										<i>4</i>									
ABB-51.4 METALLURGICAL LITERATURE CLASSIFICATION																			
10000 00										10000 00									
10000 00										10000 00									

BC

A-1

Electrochemical examination of solutions of aluminum chloride and potassium chloride in nitrobenzene. V. A. FLORETSKY and I. M. LUDOVAN (J. Chem. Phys., Moscow, 1963, 8, 708--710). The sp. conductivity κ of PnNO_2 solutions of AlCl_3 is greatest when the concn. of AlCl_3 is 14%. κ rises on addition of KCl , to an extent proportional to its concn.; on electrolysis of such solutions K is deposited at the cathode, at a decomp. potential of 5 volts, as compared with 4-5 volts for solutions containing KCl alone.

R. T.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

4

Electrochemical investigation of solutions of aluminum chloride and potassium chloride in nitrobenzene. V. A. Plotnikov and I. M. Fedorova. *Memo. Inst. Chem. Akad. Sci.*, 1, 65-66(1964). — *Russ. C. A.* 20, 3614M¹.

Electrochemical investigation of the system aluminum bromide-potassium bromide in ethyl bromide. V. A. Plotnikov and B. I. Valukhin. *Ibid.* 43-7; cf. *C. A.* 20, 3078¹. — The percentages of AlBr₃ and KBr and the sp. elec. cond. $\Lambda \times 10^3$ were: 50.5, 0.28, 2.63; 30.5, 2.00, 3.97; 45.78, 0.20, 2.40; 45.78, 1.20, 3.40; 52.63, 0.30, 2.73; 52.63, 1.87, 4.29. On electrolysis with Pt electrodes, metallic Al deposited on the cathode and Br on the anode. The decomposition potential was 2.12 v. F. H. N.

AUTHORS: Podosenov, A.F., Kozlyayev, L.L. and Pirogov, A.P., Engineers SOV-118-58-7-5/20

TITLE: Diesel Locomotives for Narrow-Gauge Railroads (Teplovozy dlya uzkokoleynykh zheleznnykh dorog)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 7, pp 15-18 (USSR)

ABSTRACT: Diesel locomotives possess many advantages over steam locomotives, particularly in the lumber and peat industries. The Laboratoriya rel'sovogo transporta Tsentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti - TsNIIME (Rail Transportation Laboratory of the Central Scientific Research Institute of Timber Industry Mechanization and Power Engineering) has carried out experiments on this subject. In collaboration with the Onezhskiy mashinostroitel'nyy zavod (the Onega Machine Building Plant), TsNIIME developed a narrow-gauge diesel locomotive in 1956; the TU⁸-4 is a four-axle locomotive with a centrally situated cab, coupling weight 17.8 tons, traction force - 2,750 kg, distance between pintles - 3,200 mm, diameter of wheels - 750 mm, maximum speed - 30 km per hour. The locomotive is equipped with electric, pneumatic and hand brakes. Another narrow-gauge diesel locomotive

Card 1/2

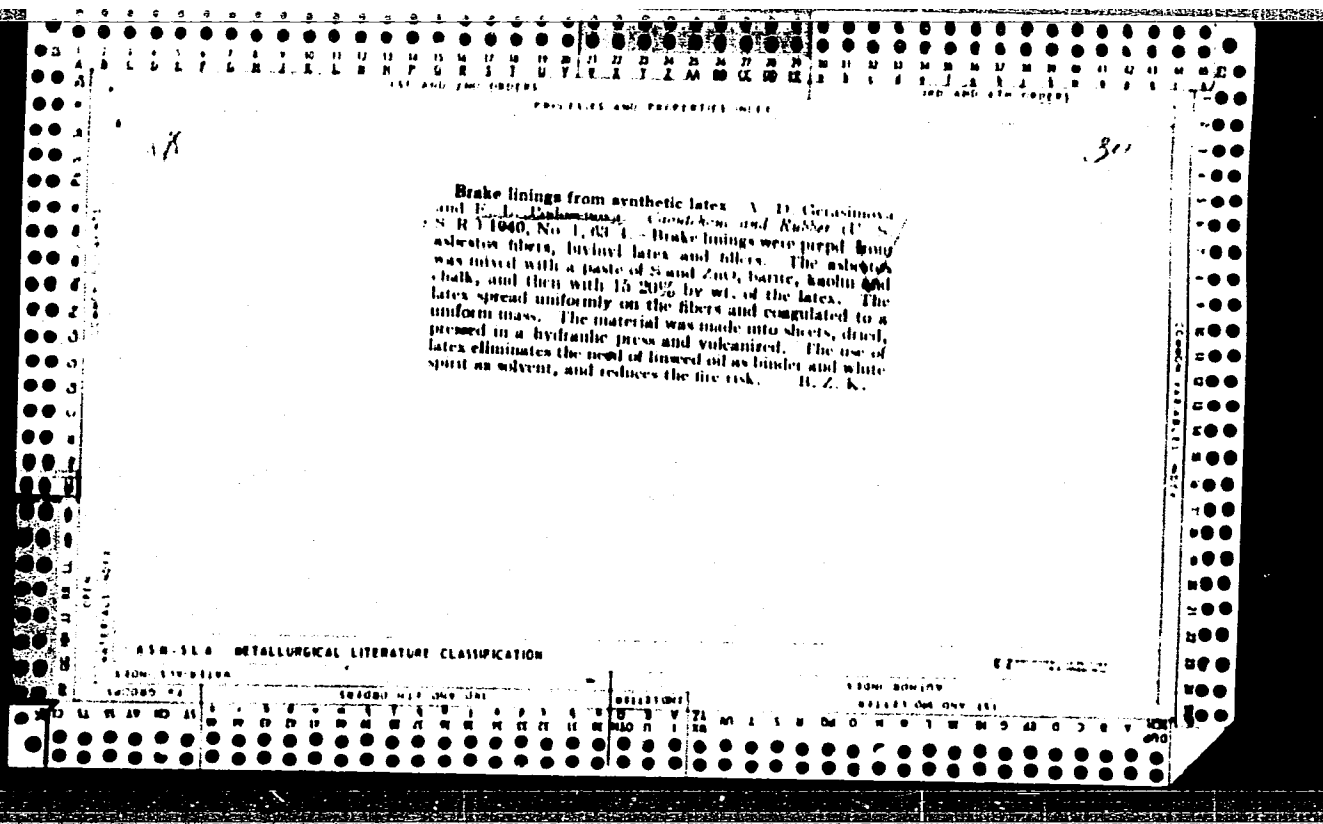
Diesel Locomotives for Narrow-Gauge Railroads

SOV-118-58-7-5/20

with hydro-mechanical transmission, the TU^m-4, was designed and constructed by the Arkhangel'skiy lesotekhnicheskii institut (the Arkhangel'sk Institute of Forest Engineering). The initial engine of the type YaAZ-204A (110 hp) was designed and constructed by the Arkhangel'sk Institute of Forest Engineering, the coupling weight of the locomotive - 16 tons, distance between pintles - 4,000 mm, diameter of wheels - 600 mm, tractive force at a speed of 4.5 km per hour - 3,800 kg, maximum speed - 28.5 km per hour. In cooperation with the Votkinskiy mashinostroitel'nyy zavod (the Votkinsk Machine Building Plant) the TsNIIME has also developed a narrow-gauge diesel locomotive with hydro-mechanical transmission gearing (TU^g-4) on the base of the YaAZ-206 diesel engine of 165 hp; coupling weight - 18 tons, distance between pintles - 4,260 mm, diameter of wheels - 800mm, tractive force - 4,500 kg, maximum speed - 38.6 km per hour. The locomotive is equipped with automatic and hand brakes. The TU^g-4 is said to be the most suitable diesel locomotive for timber transportation. The article presents a detailed technical description of this unit. There are 2 photos, 1 technical drawing, and 1 table.

1. Locomotives--USSR
2. Diesels--Applications

Card 2/2



PODOSENOVA, N.A.

Investigating the surface smoothness and residual stresses in
tempered steels subjected to high-speed grinding. Trudy Sem. po
kach. poverkh. no.3:202-216 '57. (MIRA 10:11)
(Grinding and polishing) (Steel--Testing)
(Surfaces (Technology))

PODOSENOVA, N.A.

PODOSENOVA, N.A.; OSTROVSKIY, I.M.

Chopping blanks for cutting tools on eccentric presses. Stan.1
instr. 28 no.8:27-28 Ag '57. (MLRA 10:9)
(Dies (Metalworking))

PODOSENOVA, N.A.

121-8-9/22

AUTHOR
TITLE

PODOSENOVA, N.A., OSTROVSKIY, I.M.

The Shearing of Semifinished Material for the Cutters of
Eccentric Presses.

(Rubka zagotovok rezhushego instrumenta na ekstsentriko-
vykh pressakh.- Russian)

PERIODICAL

Stanki i Instrument 1957, Vol 28, Nr 8, pp 27-28 (USSR).

ABSTRACT

On illustration 1) we see the principal schemes of shearing:
Shearing by means of flat blades without support (1a); by
means of sleeves (1b) and by means of flat blades with
support (1b). Shearing as shown on 1a) can not be recommen-
ded as it leads to considerable distortions of the front
faces. Shearing as shown on 1b) has certain advantages but it
is complicated and requires much time as the sleeves have
to be taken away constantly, the bars have to be aligned
and turned at their ends. Shearing as shown on 1b) is more
productive and warrants a good quality of the front faces.
On ill. 2 a new construction of a punch serving for the
shearing of round- and flat iron on presses of 70 and 100 t
is shown. This punch has a support with rubber shim as well
as a device for adjusting the clearance between the blades
which is of great importance for clean and correct shearing.
The influence of the clearance between the blades was

CARD 1/2

DEGTYARENKO, N.S., kand.tekhn.nauk; VOLKOV, S.I., kand.tekhn.nauk;
~~PODOSENKO, N.A., kand.tekhn.nauk;~~ IMSHENNIK, K.P., kand.tekhn.
nauk; BRISKIN, Ya.I., inzh.; UVAROVA, A.P., tekhn.red.

[Technological processes for manufacturing metal-cutting tools;
handbook] Tekhnologiya izgotovleniya metallorezhushchikh instru-
mentov; rukovodiashchie materialy. Pod red. N.S.Degtiarenko.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. No.1.
[Preparatory operations] Zagotovitel'nye operatsii. 1959. 162 p.

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy
institut.

(Metal-cutting tools)

(Metalwork)

Podosenova, N.A.

16298* (Work. Hardening and Residual Stresses During Reaming-Finishing of Construction Steels.) Naklep i ostatochnyye napriazheniya pri rastachivanii konstruktsionnykh staley. P. E. D'achenko and N. A. Podosenova. Vestnik Mashinostroeniya, v. 34, no. 7, July 1954, p. 45-47. Cutting speeds and surface quality of part being machined. Optimum radius of curvature of cutting tools. Graphs.

62

①

USSR/Engineering - Cold working of steel

Card : 1/1 Pub. 128 - 12/32

Authors : Dyachenko, P. E. and Podosenova, N. A.

Title : Cold working and the residual stresses in steel during boring

Periodical : Vest. mash. 34/7, 45 - 47, July 1954

Abstract : Cold working of construction steels (mark 30KhGS, and 20), and the residual stresses in steel during boring, were analyzed. The tests were performed at cutting speeds of 5 to 500 m/min, and at various transverse feeds. Diagrams.

Institution : ...

Submitted : ...

D'YACHENKO, P.Ye., professor, doktor tekhnicheskikh nauk; PODOSENOVA, N.A.,
inzhener.

Cold hardening and locked-up stresses in drilling structural steel.
Vest.mash. 34 no.7:45-47 J1 '54. (MLRA 7:8)
(Steel, Structural) (Drilling and boring)

PODOSEP, L. YA.,
E. V. ALEKSEEVSKII, ZhPKh 9, 1800-12 (1936)

PODOSHVA, I.

First year of working the new way and several conclusions. Sots.
trud 5 no.6:122-126 J8 '60. (MIRA 13:11)

1. Nachal'nik otдела truda i zarabotnoy platy Bogoslovskogo alyumini-
yevogo zavoda (g.Krasnotur'insk, Sverdlovskoy oblasti).
(Krasnotur'insk--Aluminum industry)
(Wages and labor productivity)

PODOSHEVNIKOV, B.F.; TARTAKOVSKIY, B.D.

Attenuation of finite-amplitude plane sound waves in gases.
Akust.zhur. 4 no.4:369-371 O-D '58. (MIRA 11:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut po
promyshlennoy i sanitarnoy ochistke gazov, Moskva.
(Sound waves)

FRANKSON, V. MAGNETITE, GRAPHITE AND FIRE CLAY
IN THE SAHARAN DISTRICT (KARAKISTAN). *Razvedka Nedr.*
12, 8-10 (1936). *Neues Jahrb. Mineral., Geol., Ref.* 11
1637, 809-10. -- Two occurrences of magnetite (61 to 75%
Fe) are reported; neither are very extensive. Fire clay
of good quality and in considerable quantities of graphite
(C 48.16%) are mentioned.

PODOSINNIKOV, N. N.

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. B-8
Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7464

Author : Levashevich, M.A. Podosinnikov, N.N. and Darivoda, I.Kh.
Inst : Dnepropetrovsk Institute for Chemical Technology
Title : Radiographic Investigation of the Relationship Between
the Structure of Organic Substances in the Solid and
Liquid State and Their Tendency to Supercooling

Orig Pub : Tr. Dnepropetr. khim.-tekhnol. in-ta, 1955, Vol 4, 84-89

Abstract : Radiographic methods have been used in investigating the structure in the supercooled and crystalline state of thymol (I), naphthylamine (II), piperine (III), codeine (IV), glucose (V), and piperonal (VI). It was found that I, II, and VI are easily supercooled; in the supercooled state these compounds exhibit some degree of molecular ordering, but long-range order is considerably impaired, the degree of this impairment being a measure of

Card 1/2

- 91 -

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. B-8
Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7464

the supercooling tendency. III, IV, and V can be super-cooled to a vitreous state; this is also accompanied by marked structural changes.

Card 2/2

- 92 -

PODOSINNIKOV, H. H.

M. A. LEVASHEVICH, Zavod Lab 9, 1122-5, 1940

POLODINNIKOV, N. N.

M. A. LEVASHOVICH, Zavod Lab, 1940, 9, 1122-1125

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

The nutritive value of dried milk. The assimilation of dried milk. B. S. Gologorski and M. P. Podosinnikova. *Voprosy Pitaniya* 6, No. 5, 95-104 (in English 1967) (1937).—The assimilation of milk powder is slightly inferior to that of whole milk, differences of 1.7% for protein and 0.5% for fat being obtained. The milk sugar is assimilated to an equal extent in each case. The different methods of prep. of the powder have little effect on capacity for assimilation. S. A. Karjala.

1ST AND 2ND ORDERS

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

112

ca

The nutritive value of dried milk. The assimilation of dried milk. B. S. Gologorski and M. P. Parkosimikova. *Voprosy Pitanija* 6, No. 5, 95-104 (in English-1964) (1937).—The assimilation of milk powder is slightly inferior to that of whole milk, differences of 1.7% for protein and 0.5% for fat being obtained. The milk sugar is assimilated to an equal extent in each case. The different methods of prepn. of the powder have little effect on capacity for assimilation. S. A. Karjala

COMMON VARIABLES INDEX

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SECTION 7

SECTION 8

SECTION 9

SECTION 10

SECTION 11

SECTION 12

SECTION 13

SECTION 14

SECTION 15

SECTION 16

SECTION 17

SECTION 18

SECTION 19

SECTION 20

SECTION 21

SECTION 22

SECTION 23

SECTION 24

SECTION 25

SECTION 26

SECTION 27

SECTION 28

SECTION 29

SECTION 30

SECTION 31

SECTION 32

SECTION 33

SECTION 34

SECTION 35

SECTION 36

SECTION 37

SECTION 38

SECTION 39

SECTION 40

SECTION 41

SECTION 42

SECTION 43

SECTION 44

SECTION 45

SECTION 46

SECTION 47

SECTION 48

SECTION 49

SECTION 50

SECTION 51

SECTION 52

SECTION 53

SECTION 54

SECTION 55

SECTION 56

SECTION 57

SECTION 58

SECTION 59

SECTION 60

SECTION 61

SECTION 62

SECTION 63

SECTION 64

SECTION 65

SECTION 66

SECTION 67

SECTION 68

SECTION 69

SECTION 70

SECTION 71

SECTION 72

SECTION 73

SECTION 74

SECTION 75

SECTION 76

SECTION 77

SECTION 78

SECTION 79

SECTION 80

SECTION 81

SECTION 82

SECTION 83

SECTION 84

SECTION 85

SECTION 86

SECTION 87

SECTION 88

SECTION 89

SECTION 90

SECTION 91

SECTION 92

SECTION 93

SECTION 94

SECTION 95

SECTION 96

SECTION 97

SECTION 98

SECTION 99

SECTION 100

20

Magnetite, graphite and fireclay in the Salween district
(Kashan). V. Porosinovik. *Russkha Ndr.* 12,
8-10(1936); *Neues Jahrb. Mineral., Geol., Ref.* 11, 1937.

8-10-10.—Two occurrences of magnetite (61-75% Fe) are
reported, neither very extensive; fireclay of good quality
and 2 considerable occurrences of graphite (C 60.16%).
C. A. Silberman

7

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										PROCESSES AND PROPERTIES INDEX																									
COMMON ELEMENTS													COMMON RADIATION DATA																																						
Gold in the Mai-Kopchigalsk Valley. V. P. Podosinovik. <i>Soviet. Zolotoprom.</i> 1937, No. 4, p. 111. The valley is south of Salkyn-Cheku mountain, between the Kur-chuma and Bala-Kold'ujira rivers. A geol. investigation points to the possibility of the existence of Au in this valley. S. L. Madorsky																																																			
ASO-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2ND AND 4TH ORDERS

SA

Calculation of trallayton motor power. PODOLSK
Przegl. Elektroverk., 23, 280-7 (Oct. 21, 1947) in Polish.
 The reduction of field excitation is calculated for a
 standard motor as required for running buses to full
 advantage in flat and hilly country. An example is
 calculated for a 93 kW motor with series and shunt field
 windings. A. S.

B64

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

100000 1000000

100000 1000000

PODOSKI, ROMAN,

Podoski, Roman, ed. Podrecznik inzyniera elektryka. Praca zbiorowa
(Dodruk do wyd. 1.) Warszawa, Trzaska, Evert i Michalski, 1951.
(Manual on lelectrical engineering. Vol.1)

SO: East European., LC Vol. 2, No. 12, Dec. 1953

PODOSYNKIN, P.A.; POSTORONKO, A.I.; GRIZODUB, A.P. [Hryzodub, A.P.];
KAL'NA, Z.P.; LYAPINA, A.G. [Liapina, A.H.]

Purification of waste waters from the washing of the electric
filters of lime kilns. Khim. prom. [Ukr.] no.3:82-84 J1-S '63.
(MIRA 17:8)

1. Slavyanskly sodovyy kombinat.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Organic Chemistry

8
@chem
New synthesis of esters of phosphonic and thiophosphonic
acids. II. Addition of dialkyl phosphites to the amide
and esters of methacrylic acid. A. N. Podovik and D. Kh.
Yamukhametova. *Bull. Acad. Sci. U.S.S.R., Div. Chem.*
Sci. 1952, 657-60 (Engl. translation).—See C.A. 47, 10487a.
H. L. H.

MY

PODOVNIK, A. N.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Organic Chemistry

6
②chem
New synthesis of esters of phosphonic and thiophosphonic
acids. XI. Addition of dialkyl phosphites to the amide
and esters of methacrylic acid. A. N. Podovnik and D. Kh.
Yarmukhametova. Bull. Acad. Sci. U.S.S.R., Div. Chem.
Sci. 1952, 657-60 (Engl. translation).—See C.A. 47, 10467a.
H. L. H.

PODOVKIN, I.M.

Magnetic variations at high latitudes. Izv.AN SSSR Ser.geofiz.
no.7:835-837 J1 '56. (MIRA 9:9)

1.Nauchno-issledovatel'skiy institut geofizicheskikh metodov.
(Magnetism, Terrestrial)

PODOYMA, V. D.

PODOYMA, V. D. -- "Investigation of the Processes of Mixing in the Dissolution of Solid Bodies." Min Health USSR. All-Union Sci Res Chemicopharmaceutical Inst imeni S. Ordzhonikidze (VNIKhFI). Moscow, 1955. (Dissertation for the Degree of Candidate of Technical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

PODOYMA, V. D.
USSR/Chemistry - Varnish production

FD-1612

Card 1/1 Pub 50-16/19

Author : Podoyma, V. D.; Lagerenko, S. P.

Title :
The operation of agitators of varnish-cooking kettles

Periodical : Khim. prom., No 2, 113 (49), Mar 1955

Abstract : Determined the conditions under which the highest effectiveness and least power consumption are achieved in the operation of agitators of varnish-cooking kettles. One figure, one table.

Podoyma, V.D.

KAFAROV, V.V., doktor tekhnicheskikh nauk, professor; PODOYMA, V.D., kandidat tekhnicheskikh nauk.

Evaluating the efficiency of mechanical mixers used in dissolving processes. Khim. prom. no.2:86-91 Mr '57. (MLRA 10:6)
(Mixing machinery)

PODOYMA, V.D.

Laboratory super mixer. Med.prom. 13 no.9:33-37 S '59. (MIRA 13:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i
aromaticheskikh rasteniy.

(MIXING MACHINERY)

POLOYNIKOVA, K.B.

27162 CITRIVYY, A.T. , POLOYNIKOVA, K.B. - Ekspress-metod opredeleniya obshchey sery v uglyakh i kokse. Zavodskaya laboratoriya, 1949, No. 3, s. 1002-03.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

PODOYNIKOVA, K. V.

USSR/Metals

Sulfur

Cast Iron

Test Techniques

Jul 49

"New Semimicro Method for Determining Sulfur in Cast Iron," A. T. Chernyy, K. V. Podoynikova, L'vov Agr Inst, 1 p

"Zavod Lab" No 7 - p. 849

Points out deficiencies in usual methods for determining sulfur content and proposes new method permitting accurate analysis in 12-15 min. Cast-iron sample must be ground to particles not exceeding 0.25 mm. Essence of method is to

62/49192

USSR/Metals (Contd)

Jul 49

Agglutinate the iron particles in a glazed-porcelain tube with a mixture composed of oxalic acid and filings of metallic calcium (or sulfur separates, hydrogen sulfide). After absorption in the form of CaS and ZnS , its content is determined by usual iodometric process.

62/49192

CA 2/

Rapid determination of total sulfur in coal and coke
A. T. Chernyl and K. V. Poloinikova. *Zavodskaya Lab.*
15, 1002-3(1949). ~~Grind 0.2 g.~~ Grind 0.2 g. sample with 1 g. metallic
Ca and 3-4 g. dry $(\text{CO}_2\text{H})_2$, heat in a boat in 750-800°
tube furnace in CO_2 stream, collecting the H_2S in 3-bulb
system: 100 ml. H_2O , 50 ml. H_2O with 2.5 g. $\text{Cd}(\text{OAc})_2$,
and 50 ml. H_2O with 10 g. $\text{Pb}(\text{OAc})_2$, each made up to 15%
 AcOH concn. The absorption bulb contents, on mixing
and titration with 1-Na $_2\text{S}_2\text{O}_3$ method, upon acidification,
give accuracy within 0.03% of the S content of the sample.
The combustion residue can be used for SO_2 detn.
G. M. Kosolapoff

CA

Determination of total sulfur in ores of ferrous and non-ferrous metals. A. T. Chernyl and K. V. Piskunova. *Zavodskaya Lab.* 15, 1132-3(1949).—Heat 0.2 g. sample with 3 g. oxalic acid and 1 g. Ca shavings to 750-800° in a stream of pure CO₂. Absorb the resulting H₂S in Cd or Zn acetate soln. and continue as in detg. S in steel. G. M. Kosolapoff

PODVINIKOVA, A. V.

A.T. Chernyi and A.V. Podvinikova.
and ores. P. 1189

Determination of various forms of sulfur in rocks

L'vov Inst. of
Agriculture

SO: Factory Laboratory, No. 10, 1950

CHERNYI, A.T.; PODOLNIKOVA, K.V.

Method of sulfur determination in vegetable and animal substances.
Biokhimiia, Moskva 15 no.2:134-136 Mar-Apr 1950. (CML 20:7)

1. Laboratory of Inorganic and Analytic Chemistry, Agricultural
Institute, L'vov.

7

C.A

Separate determination of arsenide-sulfide minerals in sulfide and arseno-sulfide ores. A. T. Chernyi and K. V. Patalonikova (L'vov Agr. Inst.). *Zvezdshepa* Lab. 18, 775 4 (1970). The method is based on differential thermal decompn. of the compds. and has been applied to numerous samples. Two samples of 0.5-1.0 g. mixed with 2-3 g. Al_2O_3 are placed in porcelain boats. One is heated in a combustion tube at 400° in CO_2 with effluent being washed successively by H_2O and Zn and Cd acetate solns. to remove H_2S ; heating 1 hr. generally suffices for the H_2S detn. The other boat is heated to 300° . The boat residues are analyzed for Ni, Co, and S and the difference between the 2 acts gives the Ni, Co, and S contained as arseno-sulfide minerals. Sulfide minerals decomp. at $350-400^\circ$, while arseno-sulfides require $450-500^\circ$; pyrites at $600-800^\circ$; arsenides at $600-800^\circ$ evolve As and form lower arsenides. G. M. K.

C.A.

7

A rational analysis of nickel ores. A. T. Chernyi and K. V. Polotnikova (Lvov Agr. Inst.). *Zvezdnykh Lab.* 16, 800-803 (1950). The analysis is made after heating the minerals with Al_2O_3 . The volatile and nonvolatile products are detd. Millrite in CO_2 -steam atm. at $350-400^\circ$ yields NiO and H_2S , while at $250-350^\circ$ in CO_2 -HCl-steam atm. it gives the same products. Polydymite similarly yields NiO , H_2S , and S. Violartite yields NiO , Fe_2O_3 , H_2S , and S; petlandite, NiO , Fe_2O_3 , and H_2S . Gersdorffite yields at $450-500^\circ$ in CO_2 -H $_2$ O NiO , As_2O_3 , and H_2S , while at $350-400^\circ$ in CO_2 -HCl-steam it gives NiO , $AsCl_3$, and H_2S . Glauconite under the above conditions yields NiO , CoO , As_2O_3 , and H_2S or NiO , CoO , $AsCl_3$, and H_2S , resp. $NiAs$ yields at $600-650^\circ$ in CO_2 -steam or CO_2 -HCl-steam only $NiAs$, but $NiAs_2$ yields $NiAs$ and As_2O_3 , or $NiAs$ and $AsCl_3$, resp. Smaltite under these conditions gives (Fe, Ni, Co) As and As_2O_3 , or (Fe, Ni, Co) As and $AsCl_3$, resp. Analergite yields NiO and As_2O_3 , in either case. Mercurosite yields $Ni(OH)_2SO_4$, while pyroneline gives this substance and $MgSO_4$. Ni silicates under the above conditions yield partially NiO , MgO , Al_2O_3 , and SiO_2 . Ni and Co asbolane yields (partially) either NiO , Mn_2O_3 , and CoO or NiO , $MnCl_3$, and CoO . Procedures for carrying out the decomps. are given. G. M. Kosolapoff

PODOYNIKOVA, K.V.; CHERNYI, A.T.

Separate determination of various mineral forms of aluminum
in bauxites. Zhur. prikl. khim. 36 no.12:2764-2767 D'63.
(MIRA 17:12)

1. L'vovskiy sel'skokhozyaystvennyy institut.

PODOYNIKOVA, K.V.; CHERNYY, A.T.

Kinetics of interaction of hydrargillite, boehmite, diaspora,
and kaolinite with carbon tetrachloride. Zhur. prikl. khim.
36 no.12:2625-2631 D'63. (MIRA 17:2)

1. L'vovskiy sel'skokhozyaystvennyy inatitut.

PODOYNIKOVA, K. V.

USSR/Minerals - Arsenic Ores, Analysis

Sep 50

"Efficient Analysis of the Arsenic Ores," A. T. Chernyy, K. V. Podoynikova,
L'vov Agr Inst

"Zavod Lab" Vol XVI, No 9, pp 1031-1035

Investigates method for separate determination of As in various combined forms.
Method is based on hydrochemical transformation of certain As-containing minerals by
sintering ore sample with Al oxide in various media, such as mixture of water vapor
and carbon dioxide. Since different minerals react differently under various temperature
conditions.

it permits consecutive decomposition of As-bearing minerals with subsequent transfer
into solution of As which may be determined by ordinary methods.

PA 169T65

PODOYNIKOVA, K.V.

U S S R .

/Determination of Metallic Iron in Iron Ores After Roasting Under Reducing Conditions. A. T. Chernyi and K. V. Podolnikova. (Zavodskaya Laboratoriya, 1950, 18, (11), 1303-1305). [In Russian]. The method proposed for the determination of metallic iron in mixtures with other iron compounds is based on the conversion of metallic iron into iron sulphide and the determination of the sulphide by the evolution method. The sample is fused at 700-800° C. with alumina and fumes of sulphur in an atmosphere of CO, after which a mixture of CO, and HCl gas is passed over. The metallic iron is converted first into the sulphide and then into the oxide, releasing an equivalent amount of sulphur as H₂S. Sulphide sulphur in the roasted ore is determined by passing the CO₂-HCl mixture over a separate sample.—S. K.

era 7

Rapid method for determining native sulfur in rocks.
A. T. Chernyi and K. V. Podolnikova (Lvov Agr. Inst.).
Zhur. Priklad. Khim. (J. Applied Chem.) 23, 857-8 (1950).—
The procedure involves sintering a weighed portion (0.2-0.5 g.) of the sample with metallic Ca in a jet of CO₂ gas and water vapor. The reaction is $\text{Ca} + \text{S} + \text{H}_2\text{O} \rightarrow \text{CaO} + \text{H}_2\text{S}$. Sintering is carried out at a temp. of 800°. The native S present is completely converted to H₂S in 10-15 min. The H₂S is absorbed in a soln. of Cd and Zn acetates and detd. by titration with I soln. The presence of sulfates does not interfere but sulfides must be absent. Gladys S. Macy

PODOYNITSYN, A.

Under the mark of competition. Sov. profsoiuzy 5 no.9:46-47 S '57.

(MLRA 10:9)

1. Profgruporg kompleksnoy brigady Khabarovskogo stroitel'nogo
upravleniya No.273.

(Khabarovsk--Construction industry)

KRYUKOV, V.P., inzh.; PODOYNITSYN, B.A.; SAFONOV, A.Ye.

Automatic regulation of pulp alkalinity. Mekh.i avtom.proizv.
15 no.8:35-36 Ag '61. (MIRA 14:9)
(Flotation) (Automatic control)

KRYUKOV, V.P., inzh.; SAFONOV, A.Ye., inzh.; Prinsipal uchastiye:
PODOYNITSYN, B.A., inzh.

Automatic control of the alkalinity of pulp in flotation.
Izv. vys. ucheb. zav.; gor. zhur. no.6:136-140 '61.

(MIRA 16:7)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'-
skogo instituta mekhanicheskoy obrabotki poleznykh iskopayemykh.
Rekomendovana kafedroy avtomatizatsii proizvodstvennykh pro-
tsessov Sverdlovskogo gornogo instituta.

(Krasnoural'sk—Flotation)

(Automatic control)

PODOYNITSYN, I.K.

Steel Castings

Adaptation of Kovalev's method in steel casting shops. Rech.transp. 12 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 ~~1952~~, Uncl.

PODOYNITSYN, I.K.

Steel Castings

Adoption of Kovalev's method in steel casting shops. Rech.transp. 12 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 ~~1977~~, Uncl.

PODOYNITSYN, I.K., inzhener.

Universal angle for shaping propellers. Rech.transp. 13 no.1:42 Ja-F '53.
(MIRA 6:11)
(Propellers)

1. PODOYNITSYN. I. K.
2. USSR (600)
4. Bronze
7. Bronze plating steel surfaces of parts with complicated shapes. Rech. transp. 12 no. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

PODOYNITSYN, V.G., kand.tekhn.nauk

Oxyacetylene flame cementation. Metalloved.i term. obr. met.
no.3:58-59 Mr '61. (MIRA 14:6)

1. Kiyevskiy avtomobil'no-dorozhnyy institut.
(Cementation (Metallurgy))

PODOYNITSYN, V.G., kand.tekhn.nauk

Possibility of increasing the cementation temperature for
steel No.20. Izv.vys.ucheb.zav.; chern.met. 2 no.7:87-89
J1 '59. (MIRA 13:2)

1. Kiyevskiy avtomobil'no-dorozhnyy institut. Rekomendovano
kafedroy tekhnologii metallov Kiyevskogo avtomobil'no-
dorozhnogo instituta.
(Cementation (Metallurgy))

35703

S/123/62/000/005/002/010
A052/A101

11710
AUTHOR:

Podoyntsyn, V. G.

TITLE:

Eliminating the supercarburization of surfaces of steel parts after case hardening

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 5, 1962, 31, abstract 5B169 ("Nauchn. tr. Kiyevsk. avtomob.-dor. in-t", no. 6, 1960, 40-43)

TEXT:

The possibility of eliminating the cementite net appearing in steel after case hardening was investigated. Experimental steel 20 samples were case hardened at $1,000^{\circ}\text{C}$ during 1 hour 15 min. in a carbonizer consisting of 20% soda ash and 80% birchwood carbon. Under such conditions of case hardening a distinct cementite net appeared. It was eliminated by treating the samples in a deoxidized salt bath at temperatures over Ac_3 . The rate of elimination of the supercarburization of the steel surface is determined by the temperature of the salt bath. So the transeutectoid zone 0.25 - 0.35 mm deep is eliminated at 900°C in 3 hours 30 min and at $1,050^{\circ}\text{C}$ in 10 min. It is established that heating in salt baths at 950° and $1,050^{\circ}\text{C}$ leads to an increase of the steel grain size so that a subsequent normalizing at 900°C is necessary to break up the grain. The

Card 1/2

PODOYN'TSYN, V.G., kand.tekhn.nauk

Cementing properties of oxygen-propane-butane flame. Metalloved i term.
obr. met. no.6:33-36 Je '62. (MIRA 15:7)

1. Kiyevskiy avtomobil'no-dorozhnyy institut.
(Flame hardening)

PODOYNITSYN, V.G.

Investigating conditions of high temperature cementation by an
oxyacetylene flame. Izv. vys. ucheb. zav.; chern. met. 4
no.8:125-128 '61. (MIRA 14:9)

1. Kiyevskiy avtomobil'no-dorozhnyy institut.
(Flame hardening)

MADZHUGA, Gennadiy Sergeevich; ROMOYNITSKY, Viktor Khristenovich;
MEL'NIKOVA, Zh.M., red.

[Rotary piston internal combustion engines] Rotorno-
porshnevyye dvigateli vnutrennego sgoraniia. Moskva, izd-
vo "Znanie," 1964. 31 p. (Novoe v zhizni, nauke, tekhnika. IV Seriya: Tekhnika, no.15) (RINA BT:0)

Podgorina, Ye. K.

31

PHASE I BOOK EXPLOITATION

507/5740

Akademiya nauk SSSR. Institut mineralogii, geokhimi i kristalloghimi redkikh elementov

Voprosy mineralogii, geokhimi i genezisa nastorozhdeniy redkikh elementov
(Problems in Mineralogy, Geochemistry, and Deposit Formation of Rare Elements)
Moscow, Izd-vo AN SSSR, 1950. 253 p. (Series: Its: Trudy, vyp. 4) Errata
printed on the inside of back cover. 2,200 copies printed.

Chief Ed.: K. A. Vlasov, Corresponding Member, Academy of Sciences USSR;
Resp. Ed.: V. V. Lyakhovich; Ed. of Publishing House: L. S. Tarasov;
Tech. Ed.: P. S. Kashina.

PURPOSE: This book is intended for geologists, mineralogists, and petrographers.

COVERAGE: This is a collection of 23 articles on the formation, geology,
mineralogy, petrography, and geochemistry of deposits of rare elements in
Siberia and [Soviet] Central Asia. The distribution and characteristics of
rare elements found in these areas as well as some quantitative and qualitat-
tive methods of investigating the rocks and minerals in which they are found,

Card 1/6

Problems in Mineralogy (Cont.)

CCV/5740

31

or with which they are associated, are discussed. Two articles present an economic investigation of the possibilities of industrial extraction and utilization of selenium, tellurium, and hafnium. No personalities are mentioned. Each article is accompanied by references.

TABLE OF CONTENTS:

GEOCHEMISTRY

Garmash, A. A. Peculiarities in the Distribution of Rare Elements in Polymetallic Deposits of the Zmeinogorsk Region of Rudnyy Altay	3
Semenov, Ye. I. On the Content of Lithium and Rubidium in Minerals of Alkaline Pegmatites of the Lovozerskiy Massif	20
Badalov, S. T., and S. Ruzmatov. On the Geochemistry of Selenium and Tellurium in the Ore Deposits of Almaty	24
Gorokhova, V. N. On the Content of Rhenium in Molybdenites of the Kudzharan Copper-Molybdenum Deposits	28

Card 2/6

Problems in Mineralogy (Cont.)

ECV/5740

21
31

MINERALOGY AND PETROGRAPHY

Yes'kova, Ye. M., and I. I. Nazarenko. Pyrochlore of the Vishnevyye Mountains, Its Paragenetic Associations, and the Peculiarities of Its Chemical Composition	33
Zhabin, A. G., G. N. Makhitdinov, and M. Ye. Kuzakova. Paragenetic Associations of Accessory Minerals of Rare Elements in Exsiccated Fenitized Khascite Intrusive Rocks of the Vishnevyye Mountains	51
Zhabin, A. G. On the Separation Time of the Minerals Niobium, Zirconium, and the Rare Earths in the Granite Pegmatite of the Blyumovskaya Mine	74
Semenov, Ye. I. Gelzirconium in Alkaline Pegmatites	85
Korkin, V. I., Yu. A. Pyatenko, and A. V. Bykova. On Britholite of the Alkaline Rocks of Southwestern Tuva	90

Card 3/6

31

Problems in Mineralogy (Cont.)

057/5740

Lyakhovich, V. V., and A. D. Chervinskaya. On the Character of the Distribution of Accessory Minerals in Granite Massifs

94

Lyakhovich, V. V., and V. I. Kabanikhova. On the Effect of Late Processes on the Content of Accessory Minerals in Granitoids

110

Ivanov, V. V., and O. Ye. Yushko-Zakharova. Discovery of Francolite in Yalutiya

131

Zugov, V. H., and A. V. Kostarin. Ytterbiumite From the Deposits of [Soviet] Central Asia

156

Polegorina, Ye. E. Crystallographic Forms of Celestine From the Galicayevskiy Deposits of Strontium in the Tadzhikskaya SSR

159

GEOLOGY AND GENESIS OF THE DEPOSITS OF RARE ELEMENTS

Kuz'menko, M. V. Genetic Types of Deposits and Ore Manifestations of Niobium and Tantalum

142

Card 4/6

31

Problems in Mineralogy (Cont.)

267/5740

- Zhukova, A. S. On the Problem of Genetic Types of Germanium-Bearing Deposits 174
- Tikhonenkov, I. P., and R. P. Tikhonenkova. Contact Rocks of the Lovozerskiy Massif, Their Genesis and the Peculiarities of Distribution in Them of Rare Metal Mineralization 185
- Volochkovich, K. L. On the Problem of the Structural Position of the Gornootayskiy Rare Metal Province 205

METHODS OF INVESTIGATING ORES AND MINERALS

- Lebedeva, S. I. Rational Method of Quantitative Determination of Disseminated Beryllium in Greisen Ores 209
- Rodionov, D. A., S. F. Sobolev, B. P. Zalotarev, and Ye. V. Vlasova. On Accidental Errors of Quantitative Mineralogical Analysis of Ore Slimes and Concentrates 214

Card 5/6

Problems in Mineralogy (Cont.)

EOV/5740

31

Loginova, L. A. Experiment in Measuring the Optical Constants of Germanite and Renierite

224

ECONOMICS OF RARE ELEMENTS

Leksin, V. N. Prospects in the Industrial Extraction of Selenium and Tellurium From the Products of Copper-Molybdenum Ore Processing

255

Kaganovich, S. Ya. Hafnium (Economic Survey)

246

AVAILABLE: Library of Congress

Card 6/6

JA/cmm/ms
11-14-61

BARANOV, Ye.G., kand.tekhn.nauk; MOSINETS, V.N.; PODOYNITSYN, Ye.M.,
gornyy inzhener; KLAPOVSKIY, V.Ye., gornyy inzhener

Study of the parameters of large-scale blasting in Kirghiz
open-pit mine workings. Vzryv. delo no.50/7:131-141 '62.

(MIRA 15:9)

1. Institut gornogo dela i metallurgii AN Kirgizskoy SSR.
(Kirghizistan--Blasting)
(Rocks--Testing)

MOSINETIS, V.N.; PODOYNITSIN, Ye.M.; KLAPOVSKIY, V.Ye.

Main prerequisites for the creation of a working classification
of Bordu deposit rocks. Izv. AN Kir. SSR. Ser. est. i tekhn.
nauk 2 no.8:23-38 '60. (MIRA 13:12)

(Bordu region--Rocks)

BARANOV, Ye.G., kand. tekhn. nauk; PODOYNITSYN, Ye.M.

Estimating the efficiency of boring and blasting operations in
the working of ore rock and stone in nonferrous metal mines.
Vzryv. delo no.57/14:173-181 '65. (MIRA 18:11)

1. Institut gornogo dela i metallurgii AN Kirgizskoy SSR.

GOSHEVA, A. Ye.; PODOZEROVA, N. P.

"Mechanism of action of some antibiotics in cultures of normal human tissue and in tumor tissue."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Dept of Infectious Pathology & Experimental Therapy, Inst of Epidemiology & Microbiology im N. F. Gamaleya, AMS USSR, Moscow.

1. PODOZERSKIY, S.

2. SSSR (600)

4. Ukraine-Cotton Growing

7. Tasks of the Ukrainian Scientific Research Institute for Cotton Growing in selecting cotton in relation to land irrigation in the Ukraine.
Khlopkovodstvo No. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

PODPAC, Justina, prof. (Ljubljana)

Report on the consultation about documentation in the Center
for the Study of Library Sciences, Documentation, and Information
Sciences, Zagreb. Nova proizvodnja no. 5: 381-382 0 '64.

IVANOV, V.A.; YATSENKO, I.S.; PODPAL'NYI, V.N.

Development by hard heading of spontaneously inflammable flat and inclined seams. Bezop. truda v prom. 8 no.12:6-10 D '64.
(MIRA 18:3)

1. Glavnyy inzh. voyenizirovannoy gornospasatel'noy chasti Karagandinskogo soveta narodnogo khozyaystva (for Ivanov). 2. Zamest-
itel' glavnogo inzhenera kombinata Karagandaugol' (for Yatsenko).
3. Starshiy inzh. otдела tekhniki bezopasnosti kombinata
Karagandaugol' (for Podpal'nyy).

PODPALYY, A.A.

Organizational requirements in control of pneumonias in children. *Pediatrics* no.2:79-80 Mar-Apr '54. (MLRA 7:6)

1. Iz Moskovskoy detskoy gorodskoy klinicheskoy bol'nitsy
No. 1 (glavnyy vrach-zasluzhennyy vrach RSFSR Ye.V.Prokhorovich)
(PNEUMONIA, in infant and child,
*prev. & control)

PODPALYY, A.A.

Polyclinical and hospital diagnosis from data of Children's
Municipal Clinical Hospital No.1. Pediatria no.12:76-81 '60.
(MIRA 14:2)

1. Iz detskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy
vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich)
(MOSCOW--CHILDREN--DISEASES)

PODPALYY, A.F.

Wintertime tasks of railroad workers. Put' i put. khoz. no.1:3-5
4a '57. (MIRA 10:4)

1. Nachal'nik Glavnogo upravleniya puti i soorusheniy Ministerstva
putey soobshcheniya.
(Railroads--Cold weather operation)

PODPALYY, Anatoliy Fedorovich.

Complete mechanization of work. Put' i put.khoz. no.11:41 N '57.
(MIRA 10:11)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy Ministerstva
putey soobshcheniya.
(Railroads--Maintenance and repair)

PODPALYY, A.F.

Types of ballast section of track and classification of track
work. Put' i put. khoz. no.3:3-6 Mr '58. (MIRA 11:4)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy.
(Railroads--Track)

PODPALYY, A.F.

Editorial: We will mark the first year of the seven-year plan
by labor successes. Puti i put. khoz. no.4:1-3 Ap '59.
(MIRA 13:3)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy.
(Railroads--Track)

PODPALYY, A.F.

Conference in Sofia. Put' i put.khoz. 5 no.4:22-23 Ap '61.
(MIRA 14:7)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy.
(Railroads—International cooperation)

PODPALYY, A.F.

Conference of railroad engineering representatives of the
countries of the socialist block. Put' i put.khoz. 5 no.11:22..
23 N '61. (MIRA 14:12)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy SSSR.
(Railroads--Congresses)

PODPALYY, A.F.

Toward new labor achievements. Put' i put.khoz. 5 no.12:1-2 D
'61. (MIRA 15:1)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy.
(Railroads--Labor productivity)

PODPALYY, A.F.

Operational requirements for the track structure. Zhel.dor.
transp. 43 no.6:8-12 Je '61. (MIRA 14:7)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy Minister-
stva putey soobshcheniya.
(Railroads--Track)

PODPALYY, A.F.

Urgent tasks in the development of track operations. Zhel.dor.
transp. 44 no.8:8-13 Ag '62. (MIRA 15:8)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy.
(Railroads--Track)

PODPALYY, Anatoliy Fedorovich; CHERNYSHEV, M.A., prof., retsenzents;
VICHEREVIN, A.Ye., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Technological reorganization of track operation, maintenance
and repair] Tekhnicheskaya rekonstruktsiya putevogo khoziaistva.
Moskva, Transzheldorizdat, 1963. 74 p. (MIRA 16:5)
(Railroads—Track)

PODPALYY, A.F.

Greater responsibility must be assumed for the condition of tracks.
Put i pát.khoz. 7 no.2:1-2 '63. (MIRA 16:2)

1. Zamestitel' ministra putey soovshcheniya SSSR.
(Railroads—Track)

PODPALYY, A.F.

Selfless work will be our answer to the appeal of the party.
Put' i put. khoz. 8 no.1:1-3 '64. (MIRA 17:2)

1. Zamestitel' ministra putey soobshcheniya SSER.

PODELYY, A.F.

Higher standards in track operation, maintenance and repair.
Pot' i put. khaz. 9 no.121-3 '85 (MIRA 18:2)

1. Zamestitel' ministra putey soobshtcheniya SSSR.

PODPALYY, A.F.

Railroaders' most important tasks. Put' i put.khoz. 10
no.1:1-4 '66. (MIRA 19:1)

1. Zamestitel' ministra putey soobshcheniya SSSR.

PODPALYY, A.F.

Beginning the year 1965. Avtom., telem. i sviaz. 9 no.1:1-3
Ja '65. (MIRA 18:2)

1. Zamestitel' ministra putey soobshcheniya SSSR.

ACC NR: AP6025947 SOURCE CODE: UR/0051/66/021/001/0008/0012

AUTHOR: Biberman, L. M.; Podpalyy, Ye. A.

ORG: none

TITLE: Calculation of the distribution of atoms over energy states

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 8-12

TOPIC TAGS: energy theory, molecular theory

ABSTRACT: The determination of a set of molecular or atomic energy states involves such difficult computations that in many cases only two, three, or four states can be calculated. If only two populations need be known, a method is proposed whereby one can determine the population ratio of any two states and the relations between them, regardless of the number of other states, and without the necessity of calculating the other states. The populations of two states N_k and N_i are related by

$$N_k W_{ki} = N_i W_{ik}$$

where W_{ki} and W_{ik} account for the relation of the states i and k with any number of other states. It is shown that W_{ki} and W_{ik} can be used without having to calculate

UDC: 539.184.001.24

Card 1/2

ACC NR: AP6025947

them if their physical meaning is known. The equations given can be used for direct transitions between two states, as well as for transitions involving intermediate states. Orig. art. has: 13 formulas.

SUB CODE: 20/

SUBM DATE: 29Jan65/

ORIG REF: 004/

OTH REF: 003

Card 2/2

PODPECAN, A.

Technical conference on inventorying communal installations
in cities and in settlements. Geod list 18 no.7/9:222-224,
Jl-S '64.

PODPECAN, A., prof. dipl. inz. (Ljubljana)

Cadastre of municipal installations in towns. Good list 18 no.1C/12:
264-268 O-D '64.

PODPECAN, Ivan

Toxicity of preventive agents used in phytopathology. Zdrav.vest.,
Ljubljana 24 no.3:112-115 1955.

1. Okrožni higienski zavod v Celju - predstojnik Dr. Ivan Podpican.
(INSECTICIDES, toxicity)

RODPERA, J.

DECEASED

Astronomy

see ILC

PODPEROVA, A.

Czechoslovakia/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61565

Author: Borkovec, J., Michalsky, J., Podperova, A.

Institution: None

Title: Aminoalkyl Quinoxalines. IV. Synthesis of 2-phthalimidoalkyl-3-chloroquinoxalines

Original

Periodical: Aminoalkylchinoxaliny. IV. Synthesis 2-ftalimidoalkyl-3-chlorchinoxalinu, Chem. listy, 1955, 49, No 9, 1405-1407; Czech

Abstract: Synthesized were 2-R-3-chloroquinoxalines (I). Mixture of 2 g nitrile of α -[p-dimethylamino-phenylimino]- β -oxo- γ -phthalimido-butyric acid (see preceding communication), 50 ml glacial CH_3COOH , 5 ml concentrated HCl , boiled for 7 minutes, added 600 mg o-phenylene-diamine, 5 ml glacial CH_3COOH and excess aqueous solution CH_3COOK , cooled, added water and there is obtained 2-(α -phthalimidoethyl-3-hydroxyquinoxaline) (II), yield 83%, MP 315° from alcohol-benzene). Analogously were obtained from nitriles

Card 1/2